

# I-405, Brickyard to SR 527 Improvement Project

## Project Overview

The Proposed I-405, Brickyard to SR 527 Improvement Project will create a dual express toll lane (ETL) system from south of the I-405/SR 522 interchange to the I-405/SR 527 interchange. This project includes new lanes, direct access ramps, interchange improvements, Stride bus rapid transit stations and related facilities, and new fish passage culverts within the project vicinity.

## Project Goals

- 1. Deliver system benefits early** Construct a project that provides congestion relief, enhances mobility and improves transit connectivity, and implements a smooth roll-out of the expanded toll system.
- 2. Manage project effectively** Deliver a successful project, through effective project and quality management, partnering, and risk management.
- 3. Minimize impacts** Develop and implement strategies that minimize impacts to the traveling public, the environment, multimodal transportation systems, communities, and businesses. Perform effective maintenance of traffic, design, construction staging, and timely project outreach.

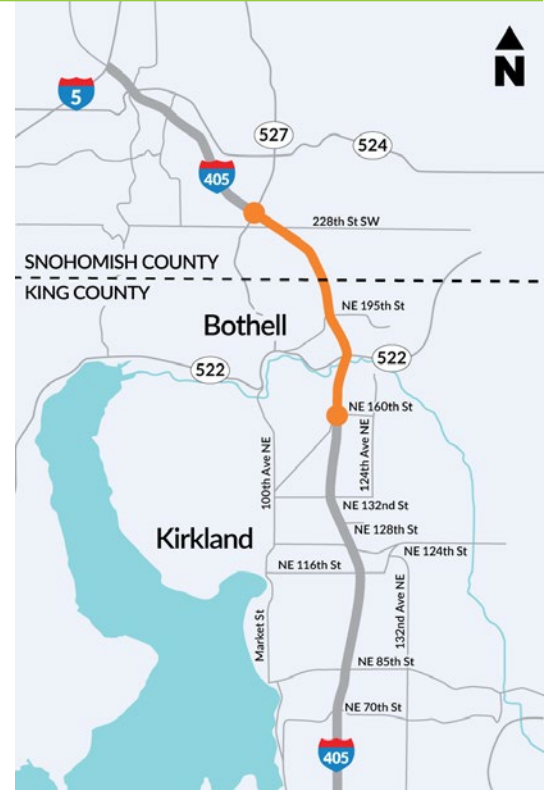
Given potential federal funding participation, the contract could have specified Disadvantaged Business Enterprises (DBE) participation requirements, and associated compliance requirements within the contract. This contract could also include State apprenticeship utilization and associated Federal training hour requirements.

## Procurement Schedule\*

Delivery of the project to align with the delivery of Sound Transit's Bus Rapid Transit in 2027.

Request for Qualifications (RFQ)	Q1 to Q2 2022
Request for Proposal (RFP)	Q2 to Q3 2022
Bid Opening/Apparent Best Value	Q4 2022 to Q1 2023
Construction Start	Q4 2022 to Q1 2023

\* Dates are approximate and subject to change.



## Design-Build Contract Amount

~\$500M

## Key Personnel

- Project Manager
- Design Manager
- Construction Manager
- Inclusion Manager (DBE Program Administrator)

Per the Governor's 2022 supplemental budget this project is currently funded with state dollars, however, final funding type is not complete until the legislative session.

## More Information

**Chun-Ho Chen, P.E.**

Project Engineer

I-405/SR 167 Program

(302) 339-3459

[ChenChu@wsdot.wa.gov](mailto:ChenChu@wsdot.wa.gov)

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## Current Project Scope

### Major interchange work

- Reconstruct the I-405/SR 522 interchange to include a direct access ramp interchange.
- Construct a new direct access ramp interchange near the SR 527 interchange.
- Construct a median transit flyer stop at the Brickyard Park and Ride.

### Multimodal access

- Construct inline transit stations along I-405 at Brickyard Park and Ride, SR 522, and SR 527.
- Construct a transit hub at SR 522 that includes pick-up and drop-off facilities, a turnaround loop, layover area, and comfort station.
- Construct a new nonmotorized connection to the North Creek Trail near the I-405/SR 522 interchange.

### Express Toll Lane

- Construct dual ETLs and associated toll points for the ETLs and direct access ramps.

### Bridge and structure

- Construct new bridges at the I-405/SR 522 interchange.
- Construct a pedestrian bridge at the proposed Brickyard inline transit station, including elevators.
- Reconfigure the pedestrian bridge at SR 527, including reconstruction of elevators and comfort station.
- Bridge removals, modifications, and seismic retrofit.
- Construct three new noise walls near Northeast 160th Street and SR 527.
- Construct several new retaining walls.

### Local roadway improvements

- Reconfigure 17th Avenue Southeast, 220th Street Southeast and SR 527 to include a roundabout at the Canyon Park Park and Ride, additional vehicle capacity and bike and pedestrian improvements.
- Reconfigure SR 522 to include three new signalized intersections.

### Environmental and other enhancements

- Replace six fish barriers with restored stream connections at Juanita Creek, Par Creek, Stream 25.0L, North Fork of Perry Creek and Queensborough Creek (2 locations).
- Construct three new stormwater outfalls; one on the Sammamish River and two on the North Fork of Perry Creek.
- Removal of four bridge piers within the Sammamish River.

## Quantities

ITEMS (APPROX. % OF CONSTRUCTION COST)	UNITS	APPROX. QUANTITY
EARTHWORK (5 - 10%)		
EXCAVATION	CY	130,000
COMMON BORROW	CY	190,000
PAVEMENT (5 - 10%)		
HMA	TONS	160,000
HMA OVERLAY	TONS	45,000
SIDEWALKS	SF	73,000
DRAINAGE (5 - 10%)		
CONVEYANCE	MILES	8
STORMWATER TREATMENT	ACRES	57
SPECIALTY ITEMS (10 - 15%)		
RETAINING WALL (CUT)	SF	55,000
RETAINING WALL (FILL)	SF	120,000
NOISE WALLS	SF	50,000
CULVERTS FOR FISH PASSAGE	EA	6
ELEVATORS	EA	10
COMFORT STATION (2 stalls)	EA	2
TRAFFIC ITEMS (10 - 15%)		
SIGN STRUCTURES	EA	30
TOLL POINT STRUCTURES	EA	10
STRUCTURES (10 - 15%)		
NEW BRIDGES	SF	140,000
NEW PEDESTRIAN BRIDGES	SF	18,000
BRIDGE WIDENING	SF	7,000